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[www.alsglobal.com](http://www.alsglobal.com)

## LABORATORY REPORT

October 30, 2013

Tim Pool  
SCS Aquaterra  
13 Executive Dr., Suite 1  
Fairview Heights, IL 62208

**RE: Cottonwood Hills Flare Gas Sample**

Dear Tim:

Enclosed are the results of the samples submitted to our laboratory on October 25, 2013. For your reference, these analyses have been assigned our service request number P1304751.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**



By Sue Anderson at 11:27 am, Oct 30, 2013

Sue Anderson  
Project Manager

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RIGHT SOLUTIONS | RIGHT PARTNER



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Client: SCS Aquaterra  
Project: Cottonwood Hills Flare Gas Sample

Service Request No: P1304751

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## CASE NARRATIVE

The samples were received intact under chain of custody on October 25, 2013 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

### Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-08 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is not included on the laboratory's NELAP, DoD-ELAP, or AIHA-LAP scope of accreditation.

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*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*



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ALS Environmental – Simi Valley

Certifications, Accreditations, and Registrations

Agency	Web Site	Number
AIHA	<a href="http://www.aihaaccreditedlabs.org">http://www.aihaaccreditedlabs.org</a>	101661
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0694
DoD ELAP	<a href="http://www.pjilabs.com/search-accredited-labs">http://www.pjilabs.com/search-accredited-labs</a>	L11-203
Florida DOH (NELAP)	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E871020
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm">http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm</a>	2012039
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	581572
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/oqa/">http://www.nj.gov/dep/oqa/</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	CA200007
Pennsylvania DEP	<a href="http://www.depweb.state.pa.us/labs">http://www.depweb.state.pa.us/labs</a>	68-03307 (Registration)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704413-13-4
Utah DOH (NELAP)	<a href="http://www.health.utah.gov/lab/labimp/certification/index.html">http://www.health.utah.gov/lab/labimp/certification/index.html</a>	CA016272013-3
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

# ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: SCS Aquaterra  
Project ID: Cottonwood Hills Flare Gas Sample

Service Request: P1304751

Date Received: 10/25/2013  
Time Received: 07:55

ASTM D5504-01 - Sulfur Bag

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	
CWH-7	P1304751-001	Air	10/24/2013	14:35	X
CWH-8	P1304751-002	Air	10/24/2013	14:45	X
CWH-9	P1304751-003	Air	10/24/2013	14:55	X



## Page \_\_\_\_\_ of \_\_\_\_\_

Phone (805) 526-7161 Fax (805) 526-7270		Requested Turnaround Time In Business Days (Surcharges) please circle 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard					CAS Project No. <b>P1304751</b>												
Company Name & Address (Reporting Information) <b>Aquatera Environmental Solutions Inc.</b> 13 Executive Drive Suite 1 Fairview Heights, IL 62208 Project Manager <b>Tim Pool</b> Phone <b>(618) 628-2001</b> Fax <b>(618) 628-2002</b> Email Address for Result Reporting <b>tpool@aquatera-env.com</b>				Project Name <b>Cottahwood Hills - Flare Gas Sample</b>		CAS Contact:		Analysis Method <b>ASTM D5504 total sulfur compounds</b>	Comments e.g. Actual Preservative or specific instructions										
				Project Number		P.O. # / Billing Information													
Sampler (Print & Sign) <b>Jacob Allen</b>				Canister ID (Bar code # - AC, SC, etc.)		Flow Controller ID (Bar code # - FC #)		Canister Start Pressure "Hg		Canister End Pressure "Hg/psig		Sample Volume							
Client Sample ID				Laboratory ID Number		Date Collected		Time Collected		Canister ID (Bar code # - AC, SC, etc.)		Flow Controller ID (Bar code # - FC #)		Canister Start Pressure "Hg		Canister End Pressure "Hg/psig		Sample Volume	
CWH-7				①		10-24-13		1435		90675-60677		/		/		/		1L	
CWH-8				②		↓		1445		90675-60675		/		/		/		1L	
CWH-9				③		↓		1455		90675-60676		/		/		/		1L	
Report Tier Levels - please select				Tier I - Results (Default if not specified)		Tier III (Results + QC & Calibration Summaries)		Tier IV (Data Validation Package) 10% Surcharge		EDD required Yes / No		Type:		Project Requirements (MRLs, QAPP)					
Retinquished by: (Signature)				Date:		Time:		Received by: (Signature)		Date:		Time:		Cooler / Blank Temperature °C					

WM01064

**ALS Environmental**  
**Sample Acceptance Check Form**

Client: SCS Aquaterra Work order: P1304751  
Project: Cottonwood Hills Flare Gas Sample  
Sample(s) received on: 10/25/13 Date opened: 10/25/13 by: MZAMORA

**Note:** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

	<b>Yes</b>	<b>No</b>	<b>N/A</b>
1 Were <b>sample containers</b> properly marked with client sample ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Container(s) <b>supplied by ALS</b> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Did <b>sample containers</b> arrive in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Were <b>chain-of-custody</b> papers used and filled out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Did <b>sample container labels</b> and/or tags agree with custody papers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 Was <b>sample volume</b> received adequate for analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Are samples within specified holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8 Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9 Was a <b>trip blank</b> received?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10 Were <b>custody seals</b> on outside of cooler/Box?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Location of seal(s)? _____ Sealing Lid?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were signature and date included?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were custody seals on outside of sample container?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Location of seal(s)? _____ Sealing Lid?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were signature and date included?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11 Do containers have appropriate <b>preservation</b> , according to method/SOP or Client specified information?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is there a client indication that the submitted samples are <b>pH</b> preserved?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were <b>VOA vials</b> checked for presence/absence of air bubbles?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12 <b>Tubes:</b> Are the tubes capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do they contain moisture?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13 <b>Badges:</b> Are the badges properly capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are dual bed badges separated and individually capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1304751-001.01	1 L Zefon Bag					
P1304751-002.01	1 L Zefon Bag					
P1304751-003.01	1 L Zefon Bag					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_

RSK - MEEPP, HCL (pH<2); RSK - CO<sub>2</sub>, (pH 5-8); Sulfur (pH>4)

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** SCS Aquaterra  
**Client Sample ID:** CWH-7  
**Client Project ID:** Cottonwood Hills Flare Gas Sample

ALS Project ID: P1304751  
 ALS Sample ID: P1304751-001

Test Code: ASTM D 5504-08  
 Instrument ID: Agilent 6890A/GC13/SCD  
 Analyst: Mike Conejo  
 Sample Type: 1 L Zefon Bag  
 Test Notes:

Date Collected: 10/24/13  
 Time Collected: 14:35  
 Date Received: 10/25/13  
 Date Analyzed: 10/25/13  
 Time Analyzed: 09:44  
 Volume(s) Analyzed: 0.050 ml(s)

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	370,000	140	270,000	100	
463-58-1	Carbonyl Sulfide	2,800	250	1,100	100	
74-93-1	Methyl Mercaptan	8,900	200	4,500	100	
75-08-1	Ethyl Mercaptan	ND	250	ND	100	
75-18-3	Dimethyl Sulfide	16,000	250	6,300	100	
75-15-0	Carbon Disulfide	2,100	160	680	50	
75-33-2	Isopropyl Mercaptan	3,500	310	1,100	100	
75-66-1	tert-Butyl Mercaptan	840	370	230	100	
107-03-9	n-Propyl Mercaptan	ND	310	ND	100	
624-89-5	Ethyl Methyl Sulfide	ND	310	ND	100	
110-02-1	Thiophene	2,800	340	820	100	
513-44-0	Isobutyl Mercaptan	ND	370	ND	100	
352-93-2	Diethyl Sulfide	ND	370	ND	100	
109-79-5	n-Butyl Mercaptan	ND	370	ND	100	
624-92-0	Dimethyl Disulfide	ND	190	ND	50	
616-44-4	3-Methylthiophene	ND	400	ND	100	
110-01-0	Tetrahydrothiophene	ND	360	ND	100	
638-02-8	2,5-Dimethylthiophene	ND	460	ND	100	
872-55-9	2-Ethylthiophene	ND	460	ND	100	
110-81-6	Diethyl Disulfide	ND	250	ND	50	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** SCS Aquaterra  
**Client Sample ID:** CWH-8  
**Client Project ID:** Cottonwood Hills Flare Gas Sample

ALS Project ID: P1304751  
 ALS Sample ID: P1304751-002

Test Code: ASTM D 5504-08  
 Instrument ID: Agilent 6890A/GC13/SCD  
 Analyst: Mike Conejo  
 Sample Type: 1 L Zefon Bag  
 Test Notes:

Date Collected: 10/24/13  
 Time Collected: 14:45  
 Date Received: 10/25/13  
 Date Analyzed: 10/25/13  
 Time Analyzed: 09:10  
 Volume(s) Analyzed: 0.050 ml(s)

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	520,000	140	380,000	100	
463-58-1	Carbonyl Sulfide	3,100	250	1,300	100	
74-93-1	Methyl Mercaptan	12,000	200	6,200	100	
75-08-1	Ethyl Mercaptan	ND	250	ND	100	
75-18-3	Dimethyl Sulfide	20,000	250	7,800	100	
75-15-0	Carbon Disulfide	2,400	160	770	50	
75-33-2	Isopropyl Mercaptan	4,800	310	1,500	100	
75-66-1	tert-Butyl Mercaptan	1,900	370	510	100	
107-03-9	n-Propyl Mercaptan	ND	310	ND	100	
624-89-5	Ethyl Methyl Sulfide	ND	310	ND	100	
110-02-1	Thiophene	3,600	340	1,000	100	
513-44-0	Isobutyl Mercaptan	ND	370	ND	100	
352-93-2	Diethyl Sulfide	ND	370	ND	100	
109-79-5	n-Butyl Mercaptan	ND	370	ND	100	
624-92-0	Dimethyl Disulfide	ND	190	ND	50	
616-44-4	3-Methylthiophene	ND	400	ND	100	
110-01-0	Tetrahydrothiophene	ND	360	ND	100	
638-02-8	2,5-Dimethylthiophene	ND	460	ND	100	
872-55-9	2-Ethylthiophene	ND	460	ND	100	
110-81-6	Diethyl Disulfide	ND	250	ND	50	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** SCS Aquaterra  
**Client Sample ID:** CWH-9  
**Client Project ID:** Cottonwood Hills Flare Gas Sample

ALS Project ID: P1304751  
 ALS Sample ID: P1304751-003

Test Code: ASTM D 5504-08  
 Instrument ID: Agilent 6890A/GC13/SCD  
 Analyst: Mike Conejo  
 Sample Type: 1 L Zefon Bag  
 Test Notes:

Date Collected: 10/24/13  
 Time Collected: 14:55  
 Date Received: 10/25/13  
 Date Analyzed: 10/25/13  
 Time Analyzed: 09:28  
 Volume(s) Analyzed: 0.050 ml(s)

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	460,000	140	330,000	100	
463-58-1	Carbonyl Sulfide	2,800	250	1,100	100	
74-93-1	Methyl Mercaptan	11,000	200	5,500	100	
75-08-1	Ethyl Mercaptan	ND	250	ND	100	
75-18-3	Dimethyl Sulfide	18,000	250	7,000	100	
75-15-0	Carbon Disulfide	2,300	160	740	50	
75-33-2	Isopropyl Mercaptan	4,500	310	1,400	100	
75-66-1	tert-Butyl Mercaptan	2,500	370	690	100	
107-03-9	n-Propyl Mercaptan	ND	310	ND	100	
624-89-5	Ethyl Methyl Sulfide	ND	310	ND	100	
110-02-1	Thiophene	3,900	340	1,100	100	
513-44-0	Isobutyl Mercaptan	ND	370	ND	100	
352-93-2	Diethyl Sulfide	ND	370	ND	100	
109-79-5	n-Butyl Mercaptan	ND	370	ND	100	
624-92-0	Dimethyl Disulfide	ND	190	ND	50	
616-44-4	3-Methylthiophene	ND	400	ND	100	
110-01-0	Tetrahydrothiophene	ND	360	ND	100	
638-02-8	2,5-Dimethylthiophene	ND	460	ND	100	
872-55-9	2-Ethylthiophene	ND	460	ND	100	
110-81-6	Diethyl Disulfide	ND	250	ND	50	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** SCS Aquaterra  
**Client Sample ID:** Method Blank  
**Client Project ID:** Cottonwood Hills Flare Gas Sample

ALS Project ID: P1304751  
 ALS Sample ID: P131025-MB

Test Code: ASTM D 5504-08  
 Instrument ID: Agilent 6890A/GC13/SCD  
 Analyst: Mike Conejo  
 Sample Type: 1 L Zefon Bag  
 Test Notes:

Date Collected: NA  
 Time Collected: NA  
 Date Received: NA  
 Date Analyzed: 10/25/13  
 Time Analyzed: 08:34  
 Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	7.0	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	12	ND	5.0	
74-93-1	Methyl Mercaptan	ND	9.8	ND	5.0	
75-08-1	Ethyl Mercaptan	ND	13	ND	5.0	
75-18-3	Dimethyl Sulfide	ND	13	ND	5.0	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	16	ND	5.0	
75-66-1	tert-Butyl Mercaptan	ND	18	ND	5.0	
107-03-9	n-Propyl Mercaptan	ND	16	ND	5.0	
624-89-5	Ethyl Methyl Sulfide	ND	16	ND	5.0	
110-02-1	Thiophene	ND	17	ND	5.0	
513-44-0	Isobutyl Mercaptan	ND	18	ND	5.0	
352-93-2	Diethyl Sulfide	ND	18	ND	5.0	
109-79-5	n-Butyl Mercaptan	ND	18	ND	5.0	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	20	ND	5.0	
110-01-0	Tetrahydrothiophene	ND	18	ND	5.0	
638-02-8	2,5-Dimethylthiophene	ND	23	ND	5.0	
872-55-9	2-Ethylthiophene	ND	23	ND	5.0	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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# ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

**Client:** SCS Aquaterra  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Cottonwood Hills Flare Gas Sample

ALS Project ID: P1304751  
ALS Sample ID: P131025-LCS

Test Code: ASTM D 5504-08  
Instrument ID: Agilent 6890A/GC13/SCD  
Analyst: Mike Conejo  
Sample Type: 1 L Zefon Bag  
Test Notes:

Date Collected: NA  
Date Received: NA  
Date Analyzed: 10/25/13  
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
7783-06-4	Hydrogen Sulfide	2,050	1,350	66	63-140	
463-58-1	Carbonyl Sulfide	2,020	1,330	66	63-138	
74-93-1	Methyl Mercaptan	1,890	1,410	75	63-144	